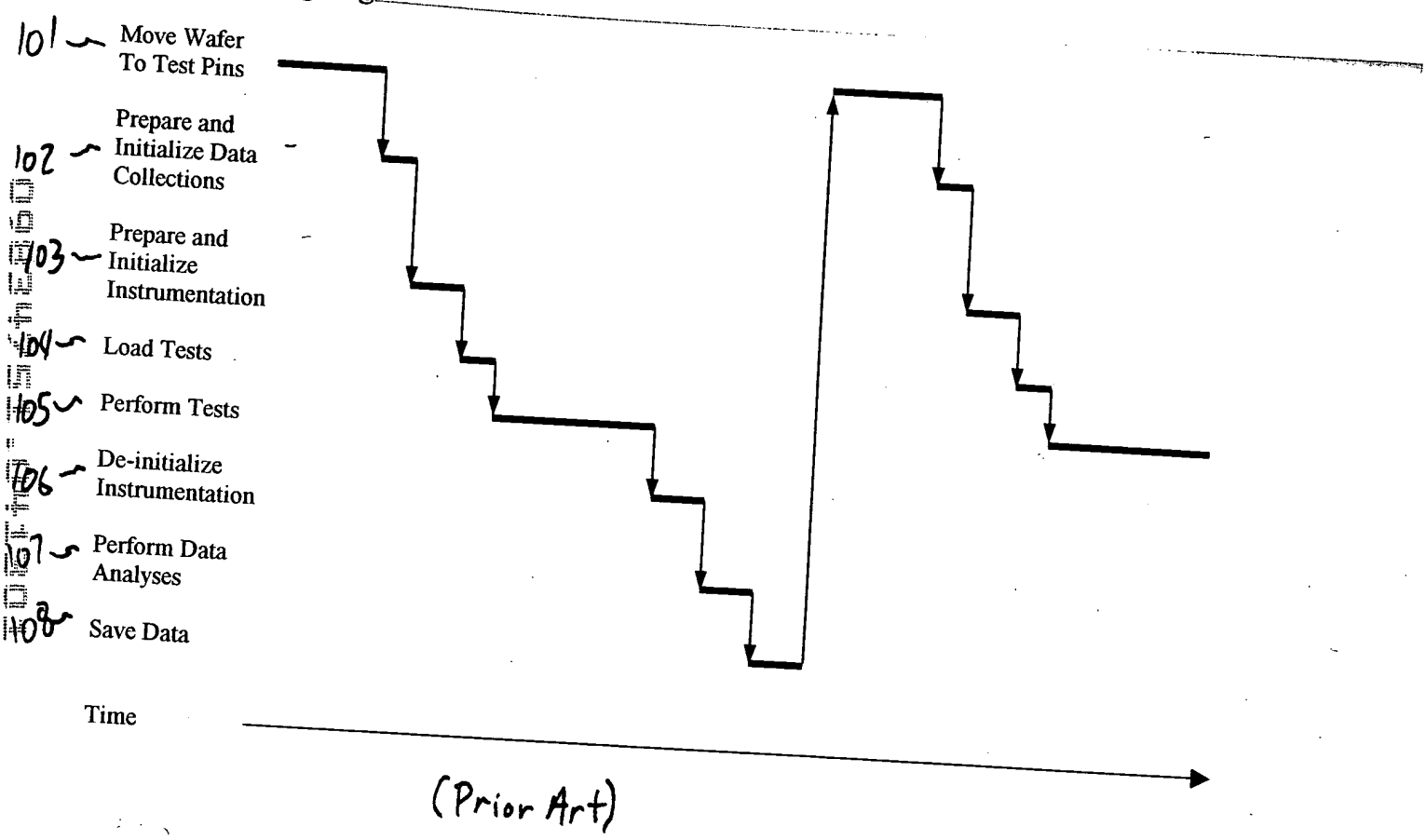
Fig. 1



(Prior Art)

Fig. 2

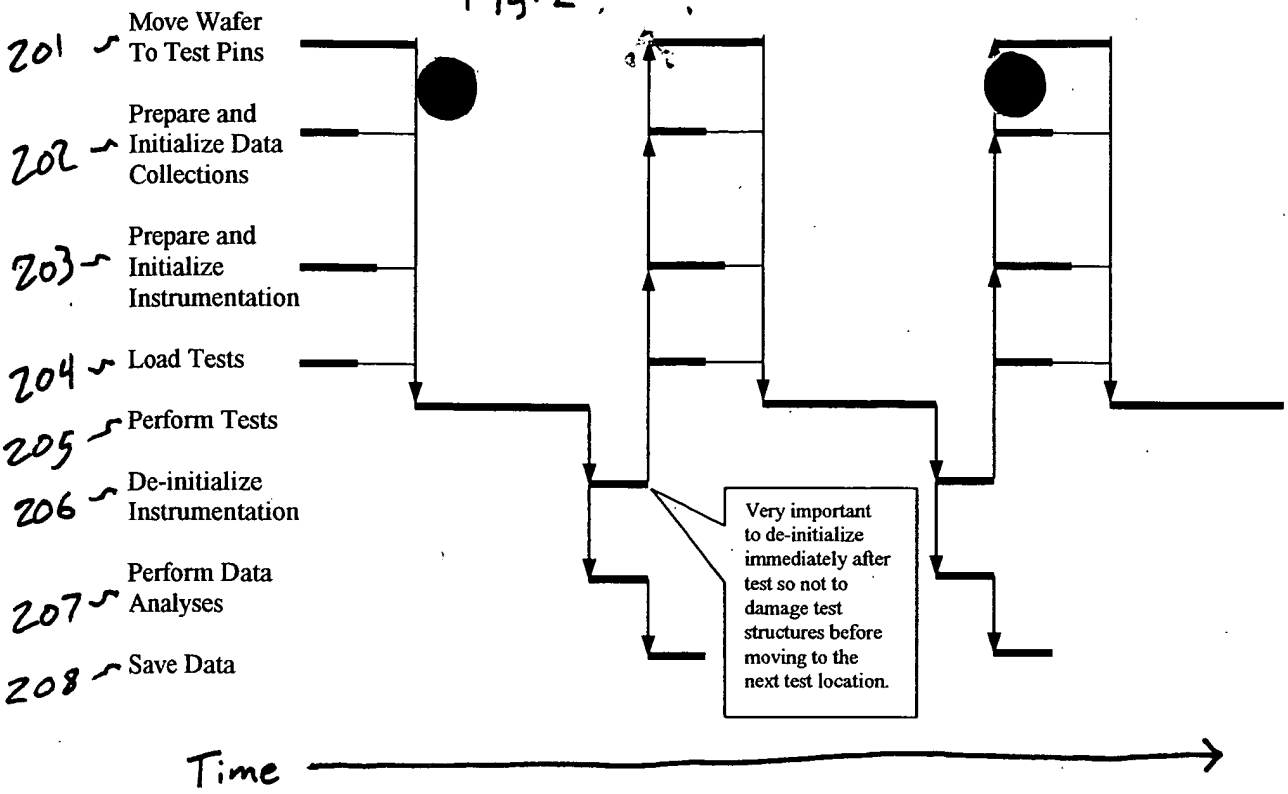


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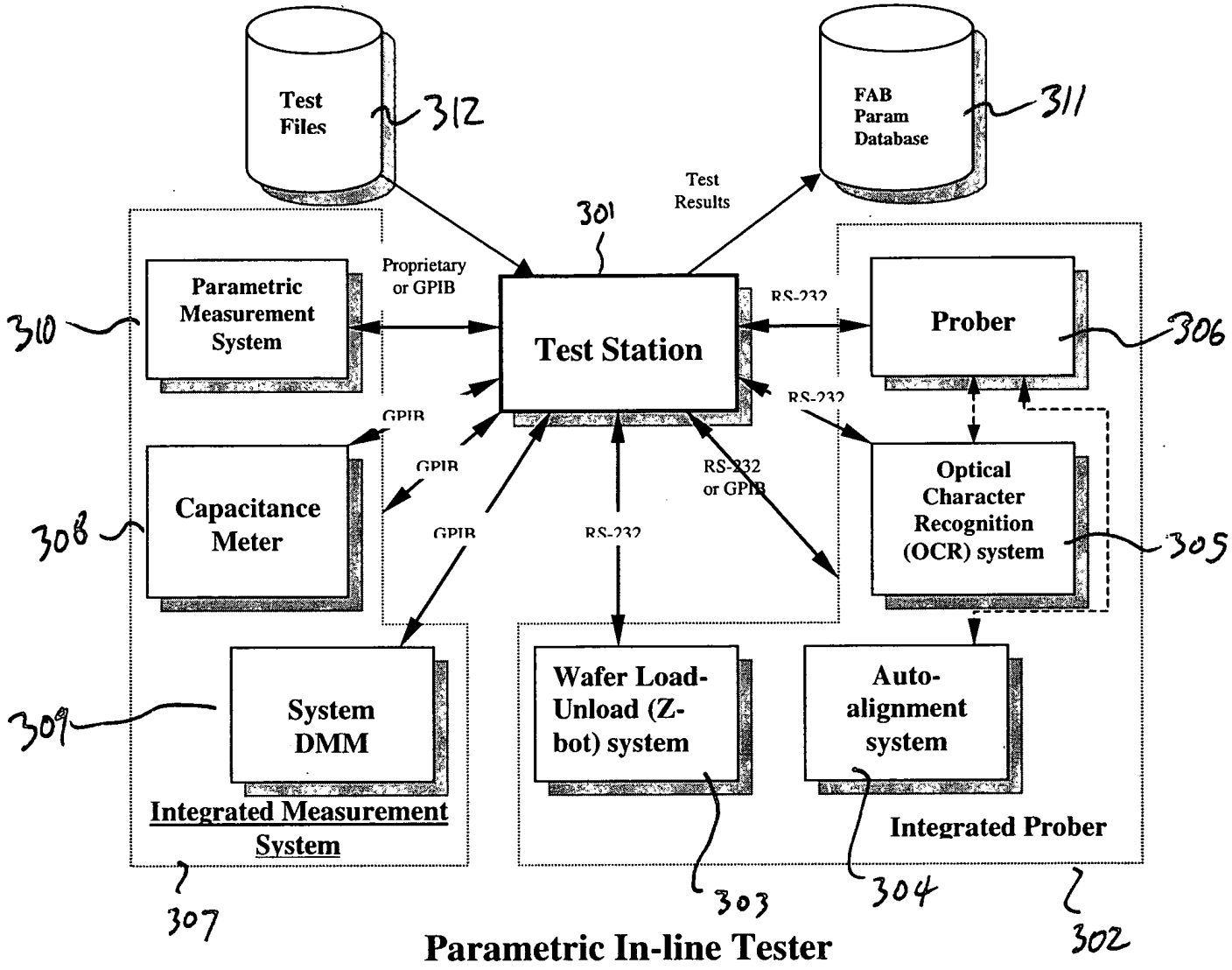
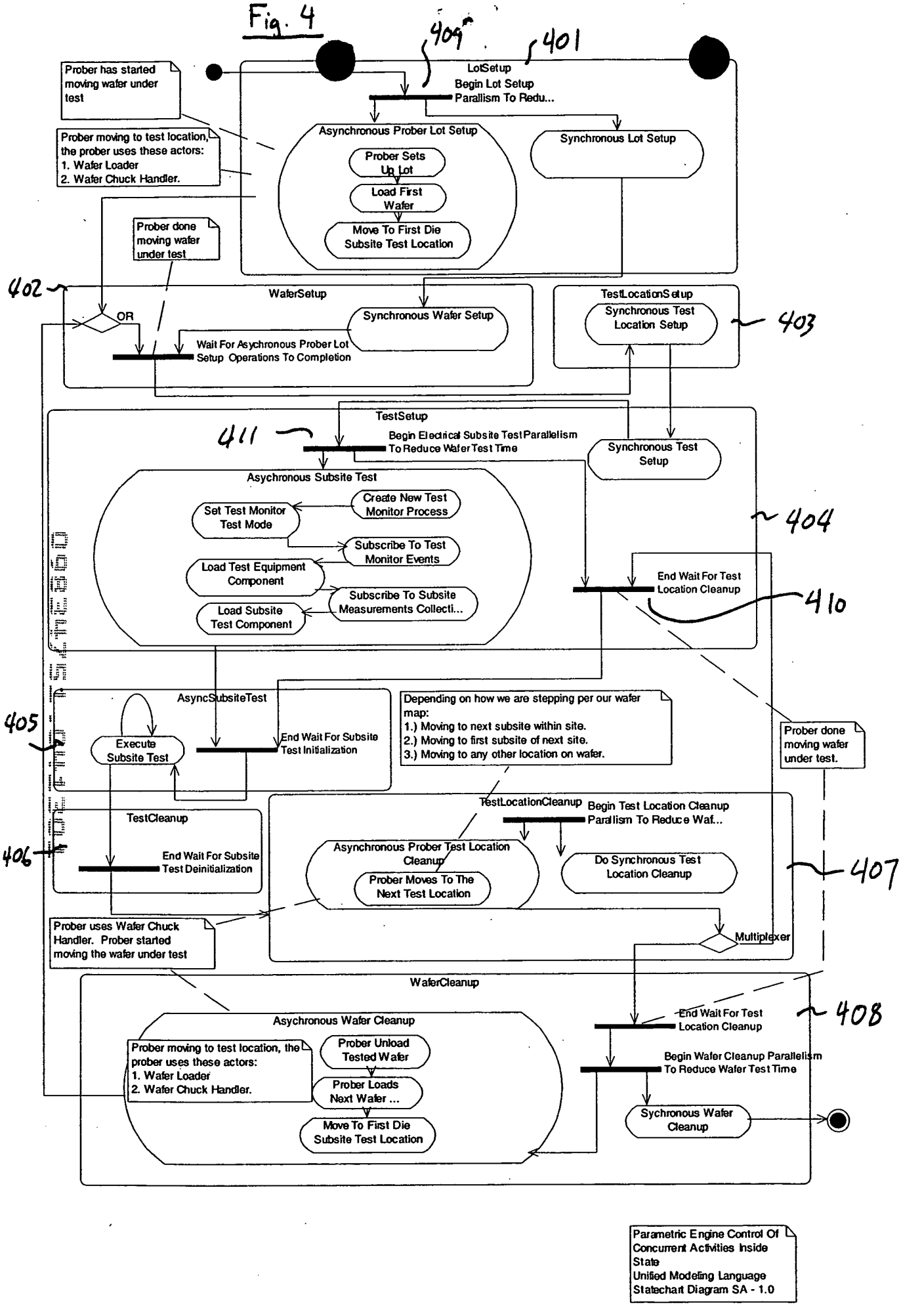
Fig. 3



Parametric In-line Tester

Fig. 4



Parametric Engine Control Of Concurrent Activities Inside State
Unified Modeling Language Statechart Diagram SA - 1.0

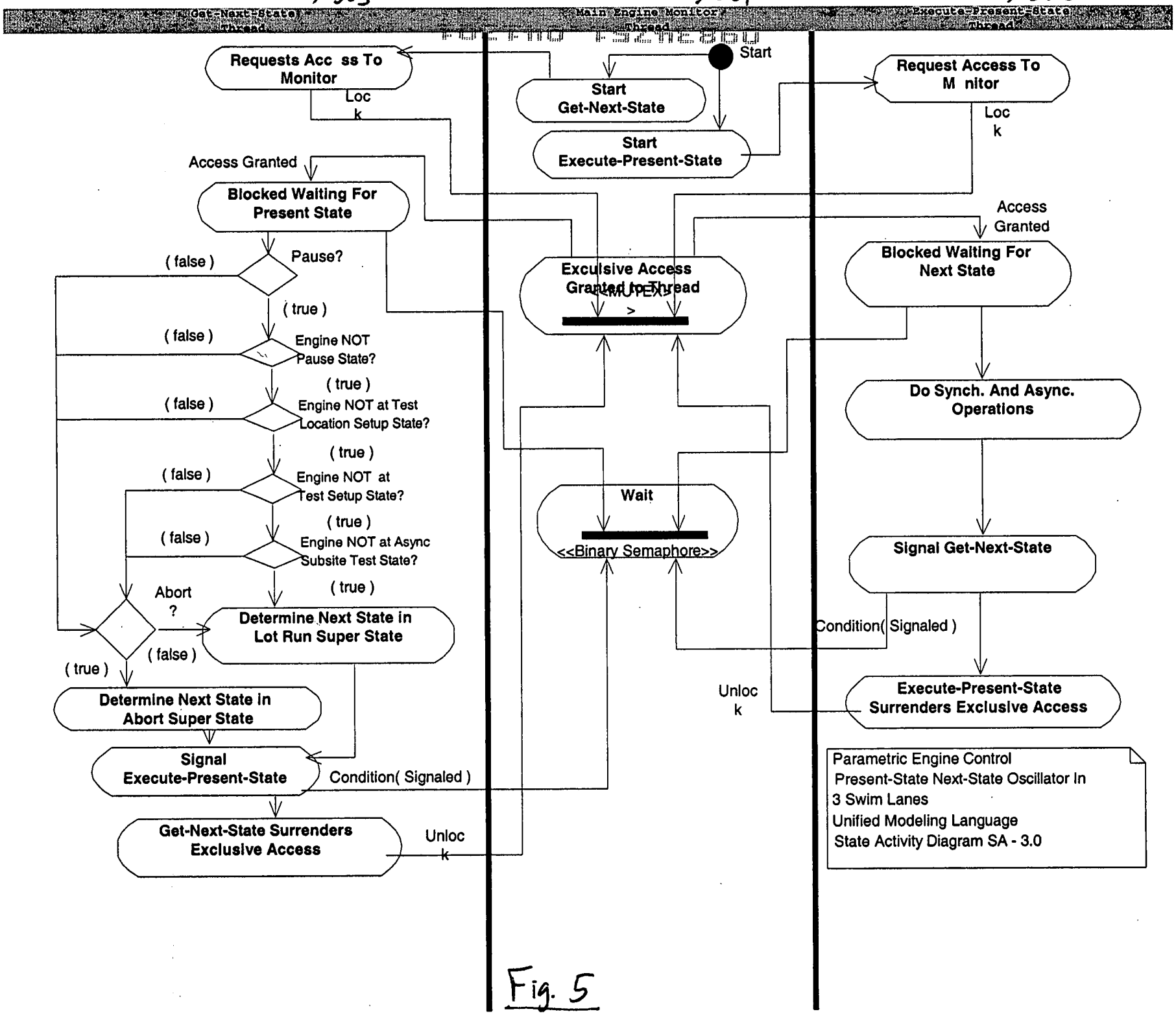

503
501
502
Get-Next-State Thread
Main Engine Monitor Thread
Execute-Present-State Thread
Start
Start Get-Next-State
Start Execute-Present-State
Requests Acc ss To Monitor
Loc k
Request Access To M nitor
Loc k
Access Granted
Blocked Waiting For Present State
Pause?
(false)
(true)
Engine NOT Pause State?
Engine NOT at Test Location Setup State?
Engine NOT at Test Setup State?
Engine NOT at Async Subsite Test State?
Abort ?
Determine Next State in Lot Run Super State
Determine Next State in Abort Super State
Signal Execute-Present-State
Get-Next-State Surrenders Exclusive Access
Unloc k
Exculsive Access Granted to Thread
<<MUTEX>>
Wait
<<Binary Semaphore>>
Access Granted
Blocked Waiting For Next State
Do Synch. And Async. Operations
Signal Get-Next-State
Condition(Signaled)
Execute-Present-State Surrenders Exclusive Access
Parametric Engine Control
Present-State Next-State Oscillator In
3 Swim Lanes
Unified Modeling Language
State Activity Diagram SA - 3.0

Fig. 5

TOETHO TSCHE860

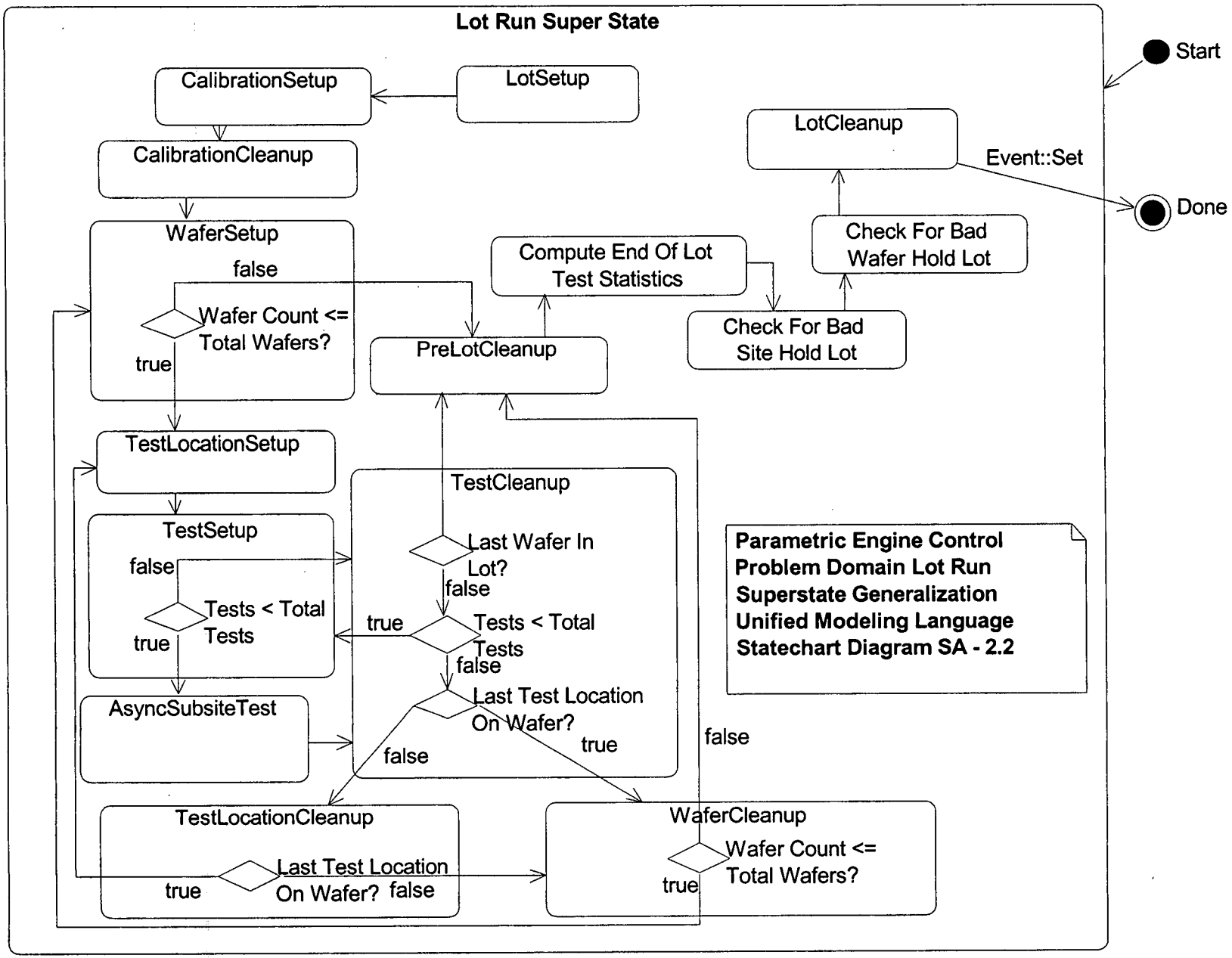
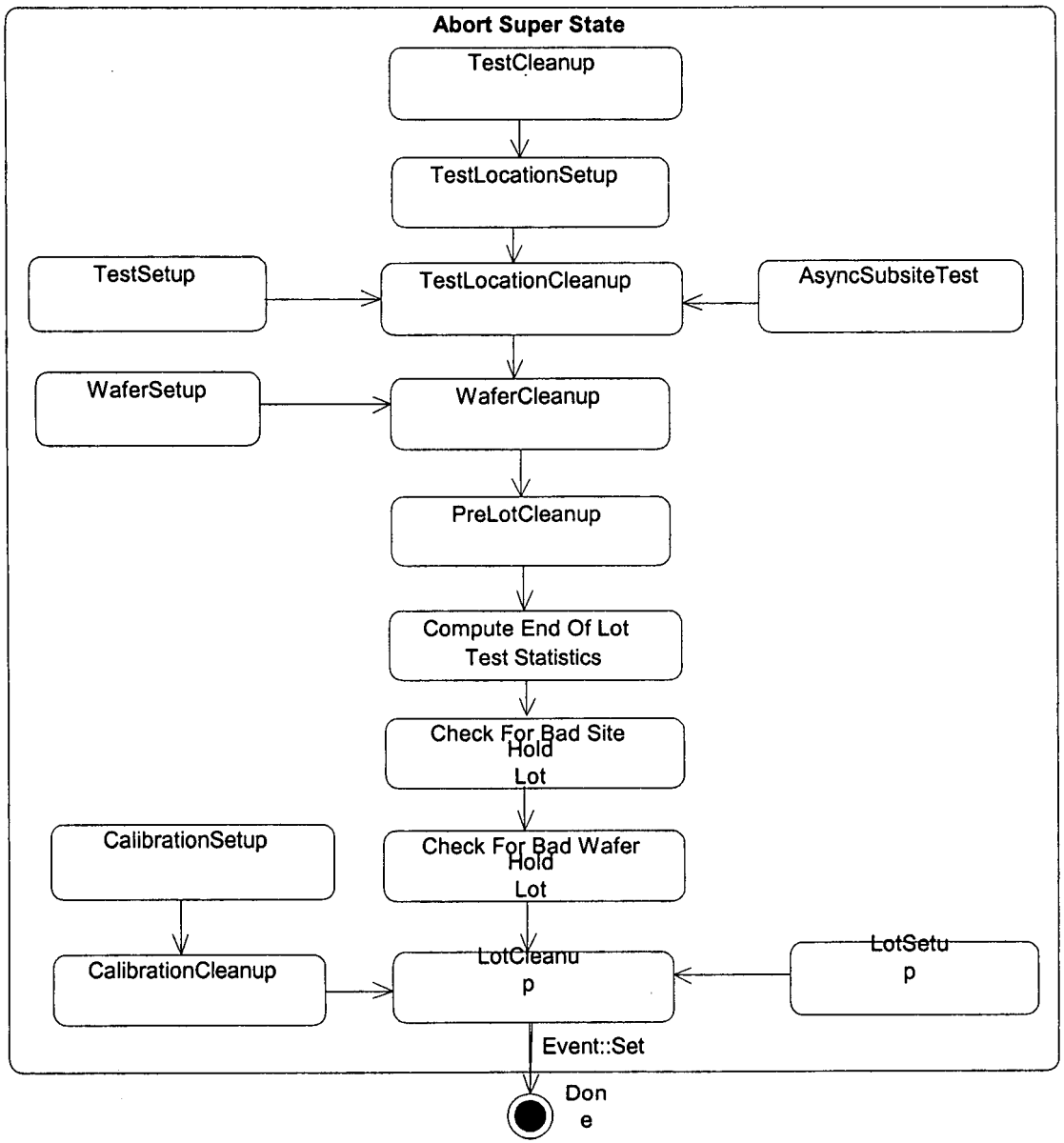


Fig 6



Parametric Engine Control
Problem Domain Abort Super State Genralization
Unified Modeling Language
Statechart Diagram SA - 2.3

Fig. 7

TOETHO: TS2hE860

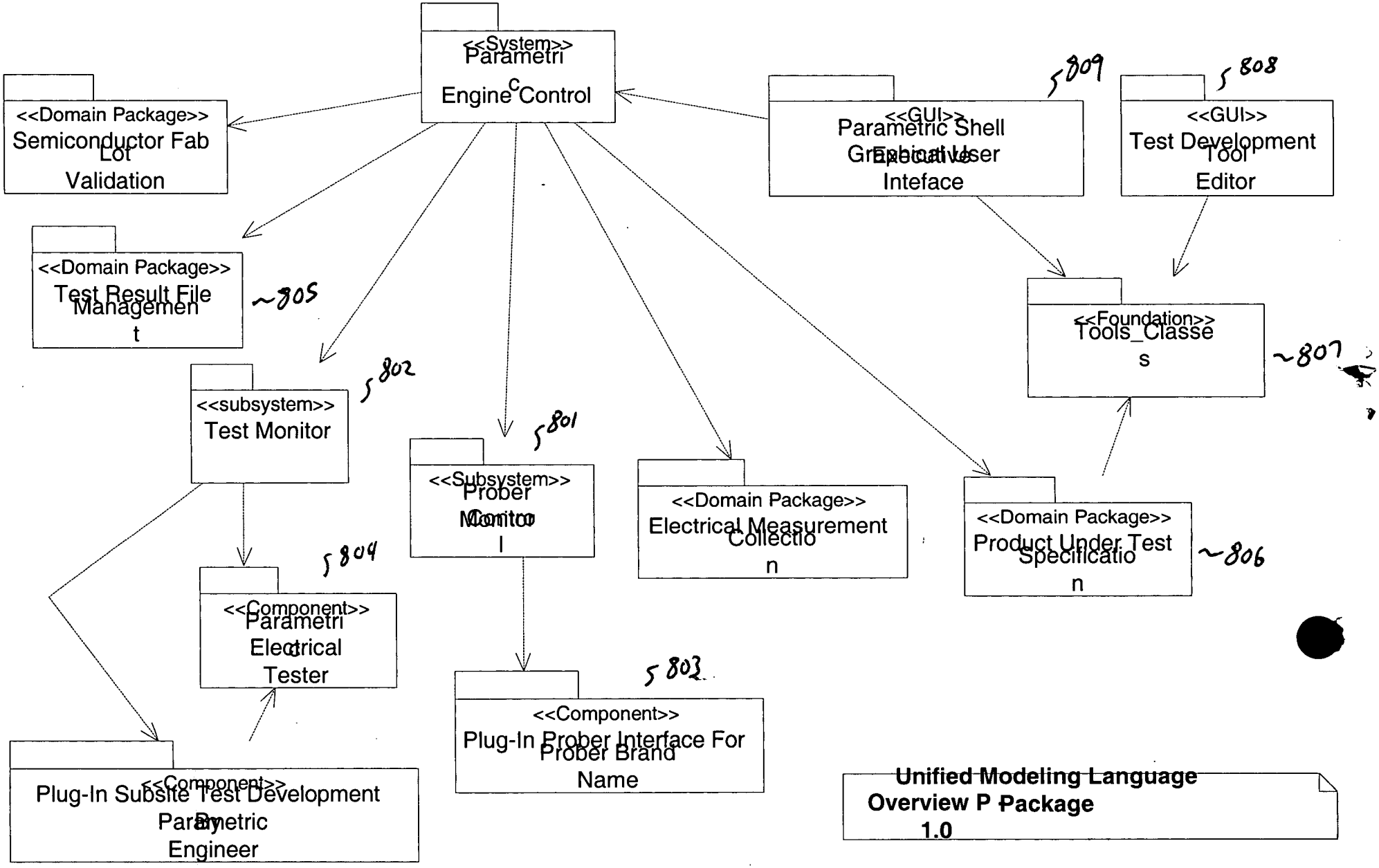


Fig. 8